Clear-Com Encore ™

PS-702 Two-Channel Intercom Power Supply

PS-702 Front view

The PS-702 can supply up to 2 amps at 30 volts DC to two channels in a 1-RU. This is sufficient to power up to 40 beltpacks,10 speaker stations, or 12 headset stations even under the most demanding conditions. Either channel is capable of supplying up to 1.2 amps. The full current capacity may be divided between the two channels.

Clear-Com's advanced fail-safe design can sense the difference between a short and an overload. Should a problem occur, each channel's DC overload/fault LED identifies the power supply's response to the problem: solid means an overload is sensed, but still powered; blinking means power has been temporarily cut off to protect the power supply. If both channels are operating and one channel has a fault, the other channel will continue to operate normally. Power is restored to the shorted or overloaded channel in a little as .5 seconds. With our exclusive Intelligent Fault/Overload Sensing (IFOS), the PS-702 will dynamically increase this time period before attempting another reset until the fault or overload is corrected. This function significantly extends component life. And there is no need to disconnect stations for the power supply to reset.

The unit also offers a convenient front panel intercom line jack, switchable to either channel. This can be quite handy for trouble-shooting or simply a time saver when quick access to either intercom line is needed. A 440Hz tone is available on either or both channels and is indispensable for system diagnostics and set-up. Simply flip a switch, set a level, and go.

Like all current Clear-Com Party-Line power supplies, two or more units can be connected in parallel for increased system capacity or backup redundancy. Multiple units will automatically synchronize their response to power faults and overloads. The PS-702 can also operate as a single-channel unit by using the front-panel A+B link switch.

Features:

- Provides up to 2 amps in only 1RU
- Supports up to 40 beltpacks, 10 speaker stations or 12 headset stations
- Exclusive IFOS Intelligent Fault/ Overload Sensing for system reset
- Front panel intercom line jack selectable for either channel
- A+B Link switch for single channel operation
- Balanced program input with global and individual channel controls
- Universal power supply accepts 100-240 VAC
- Overload/fault indicator for each channel
- Built-in test tone generator for set up and diagnostics
- Switchable terminations for each channel
- Works in parallel with other power supplies and main stations
- UL Listed and CE certified

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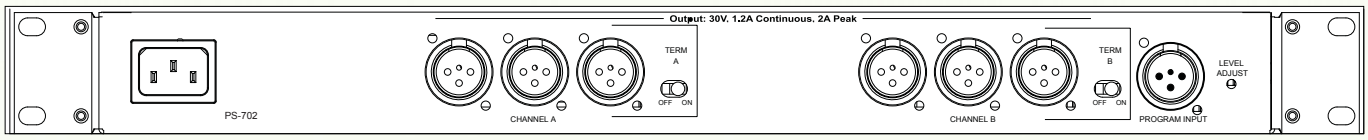

PS-702 Back Panel

Technical Specifications:

dBu is an absolute measurement. 0 dBu is referenced to 0.775 volts RMS

Program Line Input

Maximum Level before Clipping: >= 20dBu
Input Impedance: >= 5KΩ

Frequency Response

Program Input - Party Line: 200 - 20KHz ± 3dB

Max Distortion

Program Input - Party Line: <= 0.2%

Noise

Program Mic Input - Party Line: < -70dBu

Max Gain

Program Input - Party Line: >= -16dB

Min Gain

Program Input - Party Line: <= -20dB

Mains Power

Input Voltage Range: 100 - 240 VAC
Input Frequency Range: 50 - 60 Hz
Input Power: <= 60 VAC
Output Voltage: 30 VDC ± 0.5V
Output Current per Channel (Continuous): 1.2 A
Output Current per Channel (Peak): 2 A (Do not exceed the 1.2A rating for more than 2 seconds per 1 minute period)

Short Circuit Recovery Time (1st short): <= 0.5 sec
Short Circuit Recovery Time: >= 20 shorts in 20sec) <= 20 sec

Station Capacity

Up to 40 RS-601 beltpacks or 10 speaker stations or 12 headset stations distributed over both channels

Rear Panel Connectors

Intercom: (6) XLR-3M (3 per channel)
Program: (1) XLR-3F
AC Power: IEC 320 connector

Rear Panel Controls

(2) Termination On-Off switches
(1) Volume control

Front Panel Connectors

Intercom (1) XLR-3M

Front Panel Controls & Indicators

(1) Intercom channel switch
(1) A+B link switch
(2) Program switch
(2) Send level controls
(1) Test tone switch
(2) Overload LEDs
(1) Link indicator LED
(1) Power indicator LED
(1) Power switch

Environmental

32˚ - 122˚F (0˚ - 50˚C)

Dimensions

19 in. W x 1.75 in. H x 7.5 in. D
(483 mm x 44 mm x 190 mm)

Weight

6.16 lbs. (2.80 kg)

Notice About Specifications

While Clear-Com makes every attempt to maintain the accuracy of the information contained in its product manuals, that information is subject to change without notice. Performance specifications included in this manual are design-center specifications and are included for customer guidance and to facilitate system installation. Actual operating performance may vary.

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